



SWOS DEPT. HEAD BRIEF

RADM George Mayer

Naval Safety

Center

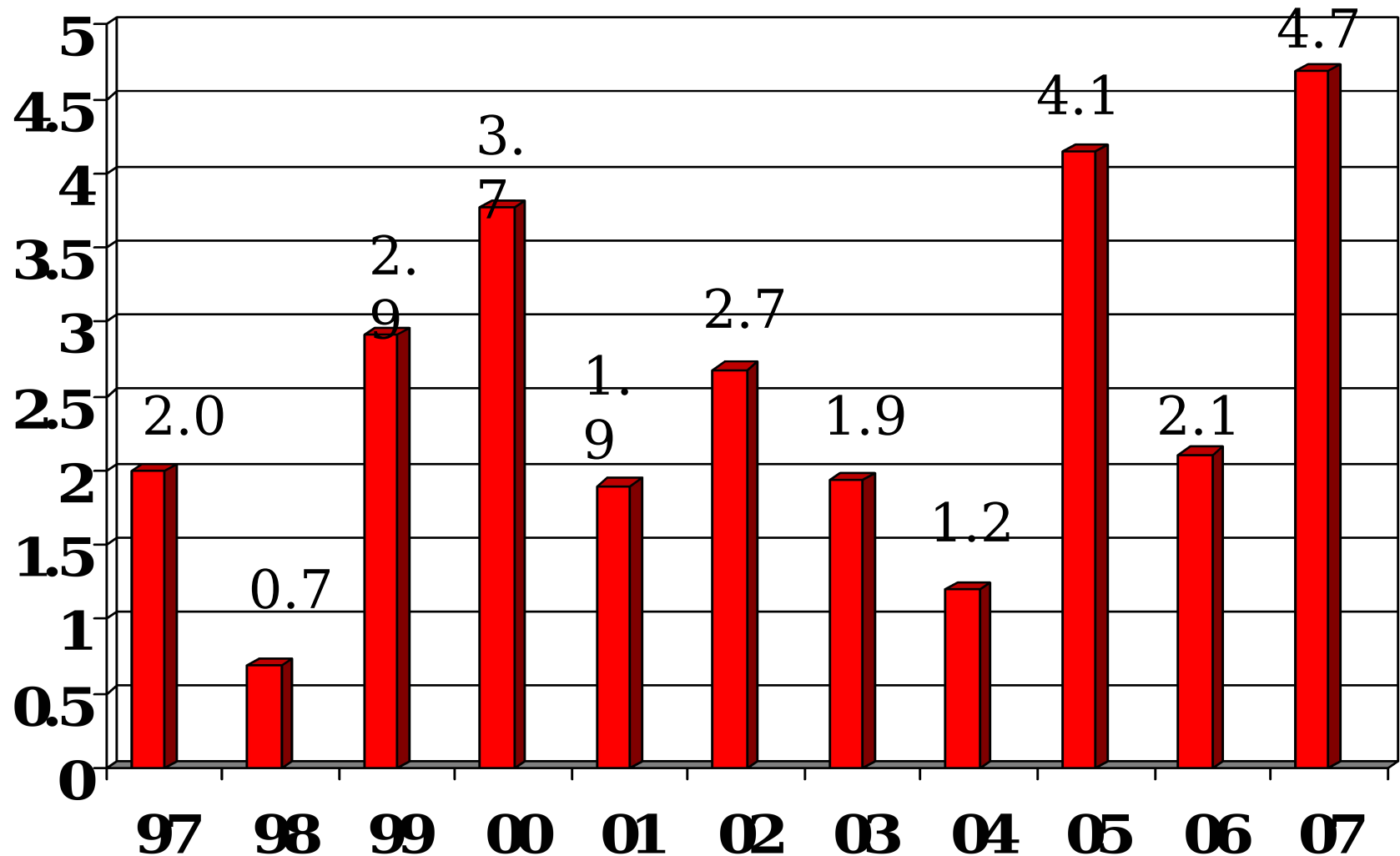
19

March 2007

Crew Safety during Hi-tempo Operations

The Missile Deck

Surface Class A Mishap Rate



USN AFLOAT CLASS A MISHAPS

- **06 Jan 07 (CNSP/HALSEY) Class B fire in engineering spaces.**
- **30 Nov 06 (CNSL/BOONE) following loss of steering while underway, divers discovered rudder missing.**
- **08 Nov 06 (CNSL/GUNSTON HALL) Two LCUs came alive in the ship's well deck during heavy seas causing damage to the ship.**
- **05 Nov 06 (CNSL/HALYBURTON) FFG collided with DDG while mooring.**
- **04 Oct 06 (CNSL/KEARSARGE) During CMAV repairs to ballast tank, aviation supply storeroom flooded.**

Areas of Concern - Afloat

- Human error is primary cause of all shipboard mishaps.
 - Inadequate Supervision
 - PMS not accomplished
 - Poor Crew Resource Management
 - Lack of Situational Awareness
 - Complacency
- Strict adherence to CO's Standing Orders and Rules of the Road critical to safe operation.
- Chronic fatigue impacts decision making ability and judgment of shipboard personnel (especially watchstanders).
 - Schedule shipboard evolutions to maximize personnel "downtime" for recuperative sleep.
- Shipboard maintenance evolutions must adhere to the Joint Fleet Maintenance Manual and ensure Quality Assurance before, during and upon completion of every maintenance evolution.

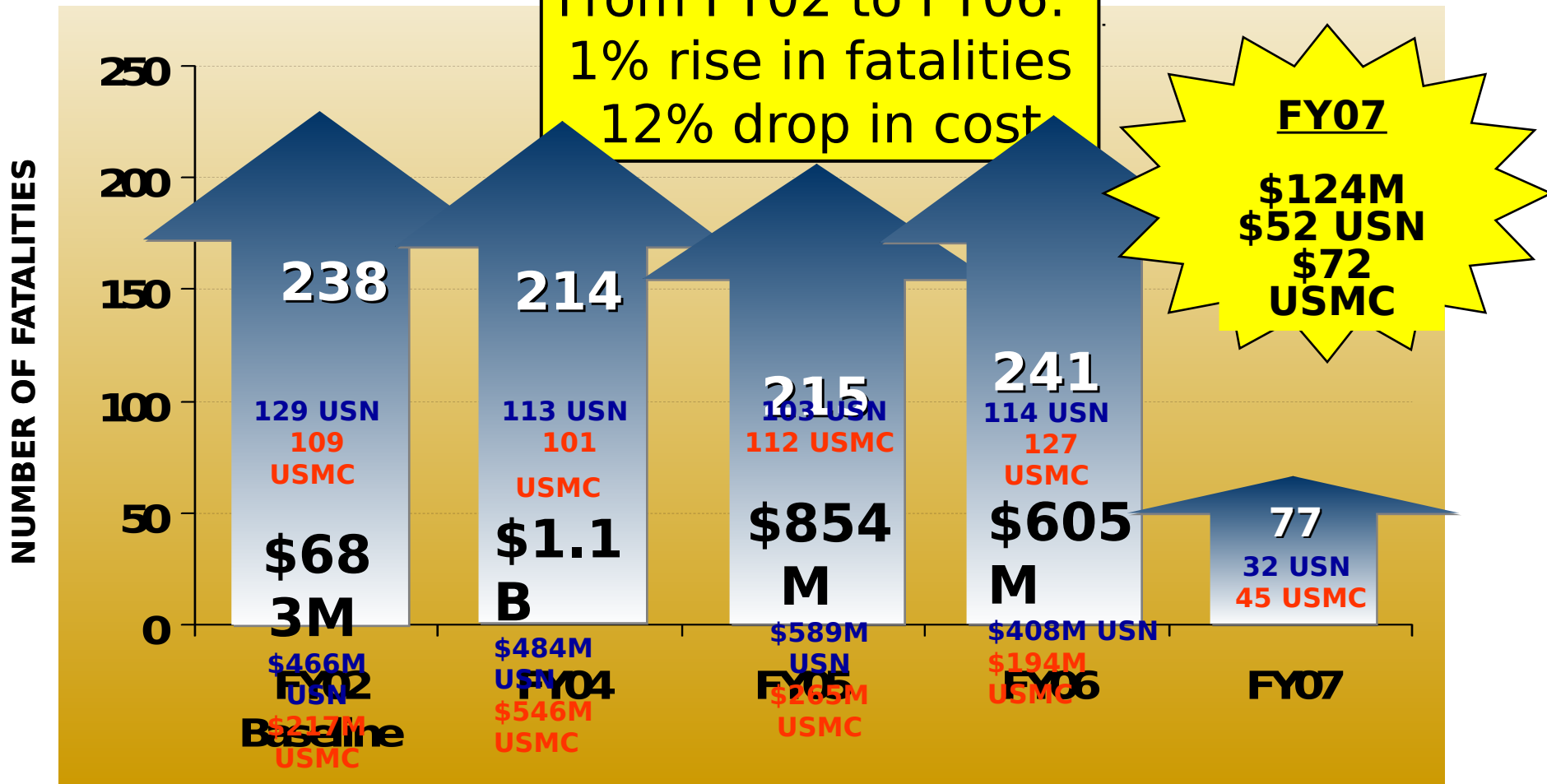
Best Fleet Practices - Afloat

Integrate ORM into all shipboard training and Off-Duty activities.

1. Visible senior leadership support for/and verification of ORM by work center personnel during daily activities.
2. Departmental/divisional quarters – Led by Officers and CPO's. (Don't be an E-mail Leader!)
3. Daily senior leadership – Involved with work center personnel.
4. Consistent use and application of RM throughout chain-of-command – On- and Off-Duty!

USN/USMC Fatalities & Resources Lost

During Active Period



ENDSTATE GOAL IS ZERO

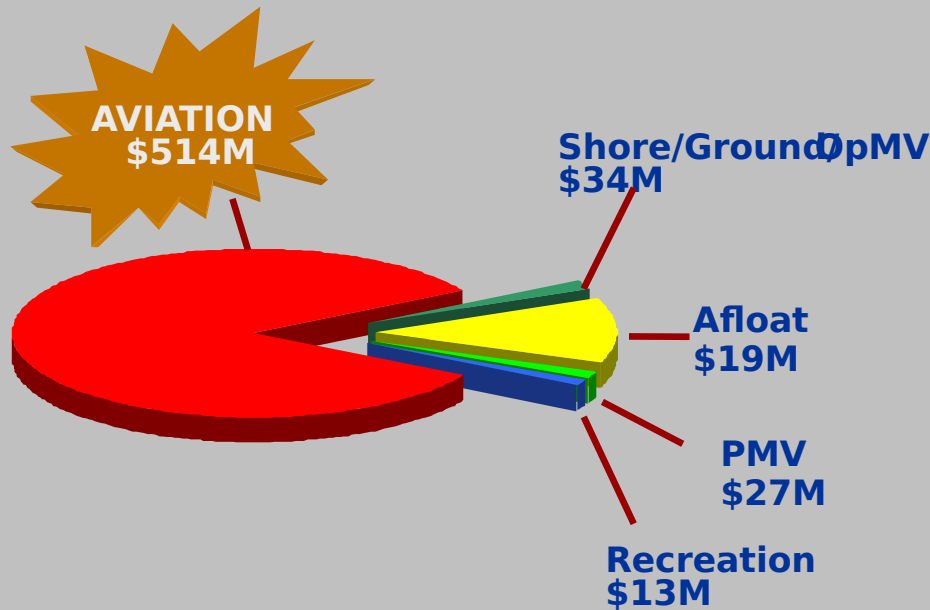
Data: 06 Mar 07



FY06 Total Cost and Deaths

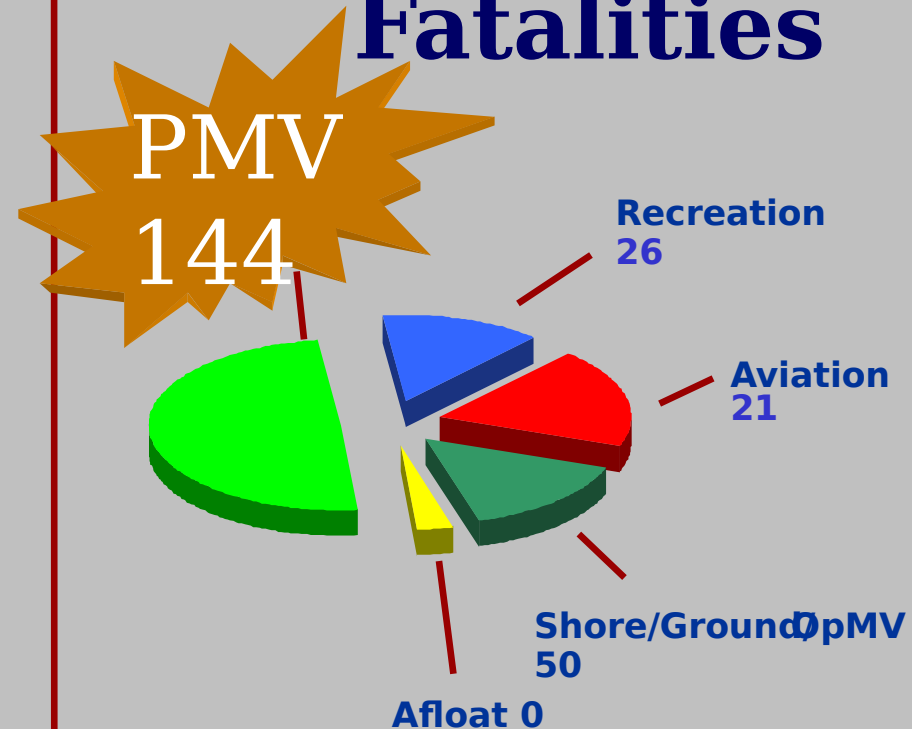
Navy and Marine Corps

Cost



Total Cost: \$605M

Fatalities



Total Fatalities: 241

Magnitude of Accidents

In FY07, Navy and Marine Corps Mishaps Resulted In:

NAVY

- 1 Navy death every 123 hours (5 days)
- 1 POV death every 179 hours (7.5 days)
- 1 Afloat Class A Mishap every 18 days
- 1 Aviation death every 11 days
- 1 Aircraft destroyed every 164 days
- \$168,000 a day in aviation losses

MARINE CORPS

- 1 Marine death every 87 hours (3.6 days)
- 1 POV death every 151 hours (6.3 days)
- 1 Aviation death every 55 days
- 1 Aircraft destroyed every 55 days
- \$399,955 a day in aviation losses

USS JOHN F KENNEDY

22 July 04

Collision with dhow



USS Theodore Roosevelt

05 Dec 2005

Scheduled maintenance on arresting gear



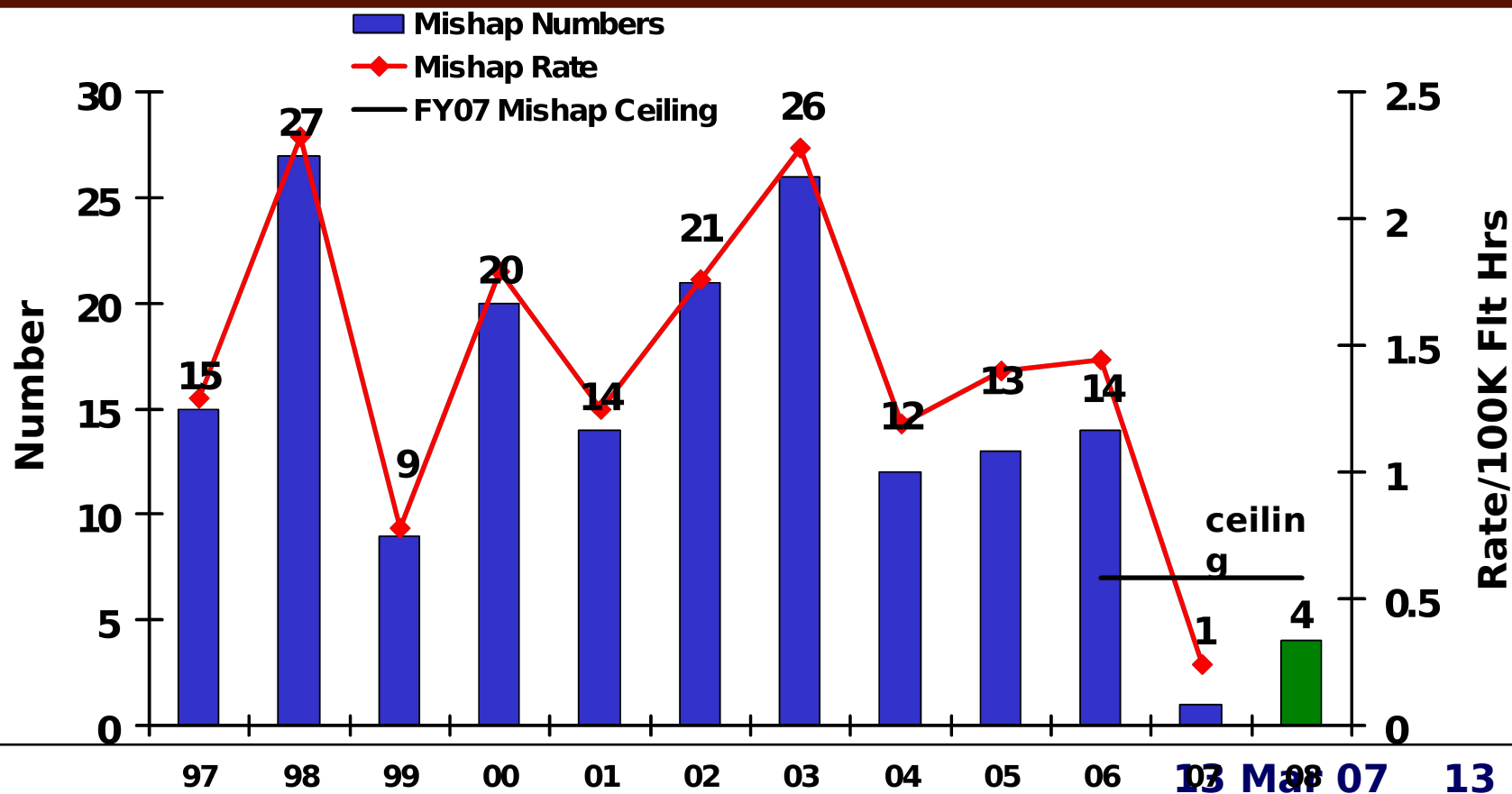
USS NASHVILLE

23 August 2006

Class A fire in ship's laundry



CLASS A FLIGHT MISHAPS



Mar 06

CLASS A FM/FM RATE FY COMPARISON: 1/ 0.24

9 / 2.10

FY06 MISHAPS/MISHAP RATE: 14 / 1.44

10-YEAR AVERAGE (FY97-06) MISHAPS/MISHAP RATE: 17.1 / 1.56

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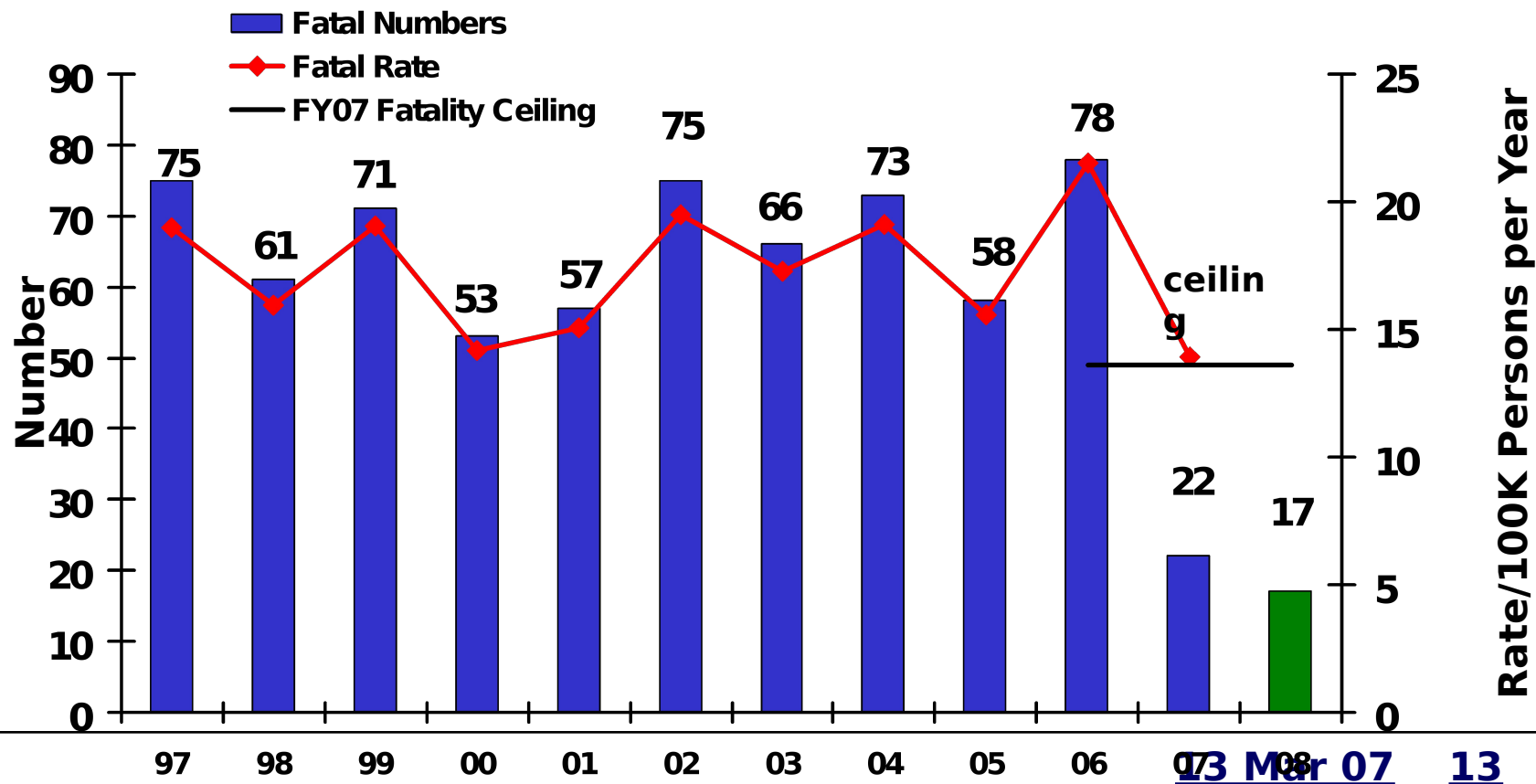
Tactics to Defeat the “Blue Threat”

Blue Threat - Action/Inaction by own forces causing losses
Blue Threat - Losses far exceed **Red Threat** losses

144 FY06 Navy and Marine Corps PMV Fatalities = 8.5 USS Cole losses



PMV FATALITIES



Mar 06

CLASS A FATALITIES/FATALITY RATE FY COMPARISON: 22 / 13.91 44 / 26.84

FY06 FATALITIES/FATALITY RATE: 78 / 21.49

10-YEAR AVERAGE (FY97-06) FATALITIES/FATALITY RATE: 66.7 / 17.61

Watch out for the other civ



Seatbelts?

vidman.ca

Factors In Traffic Deaths (USN/USMC, FY02-05)

Fatigue is considered a major factor in traffic deaths, but is under-reported throughout the fleet.

FY02-05 Deaths: 481 (USN -272) / (USMC - 209)

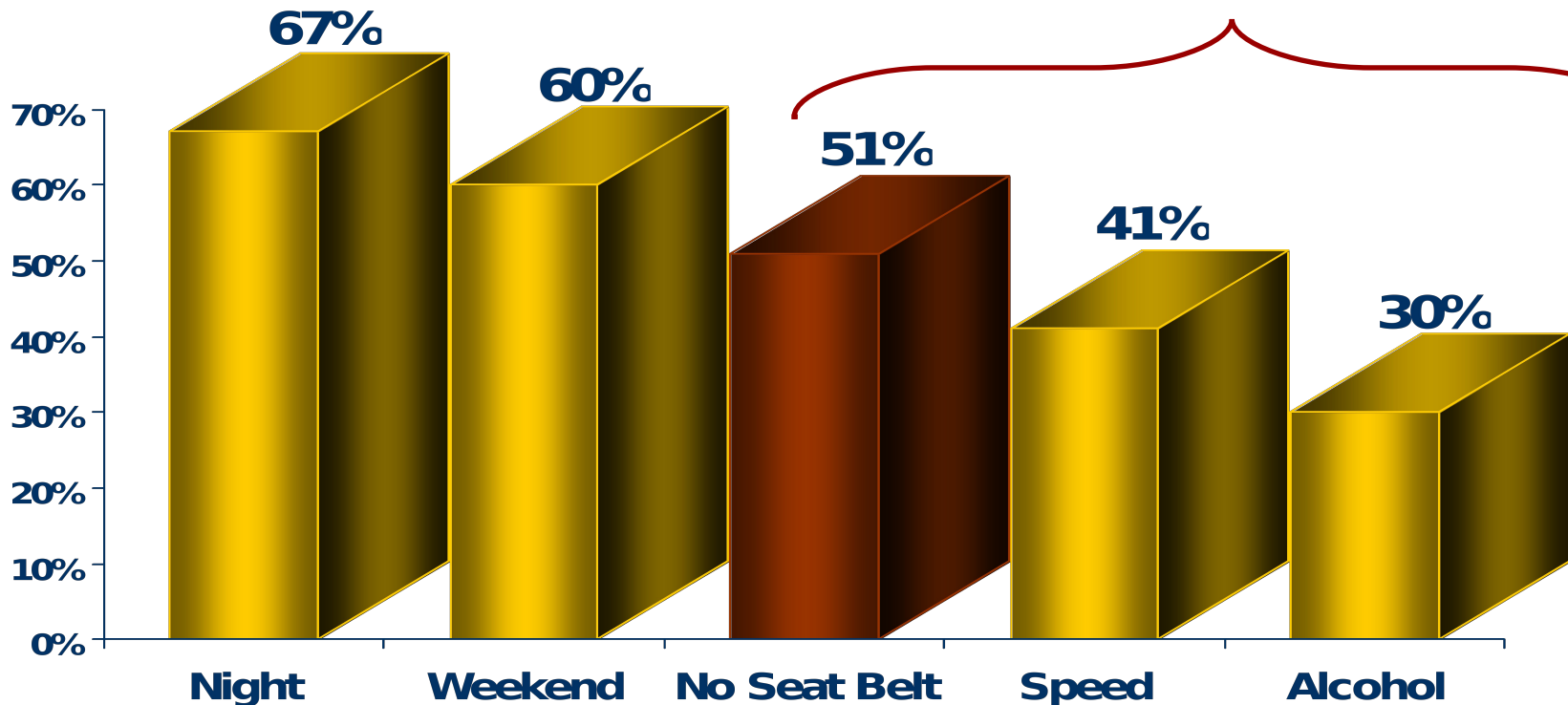
FY02: 140 (USN - 75) / (USMC - 65)

FY03: 119 (USN - 66) / (USMC - 53)

FY04: 119 (USN - 73) / (USMC - 46)

FY05: 103 (USN - 58) / (USMC - 45)

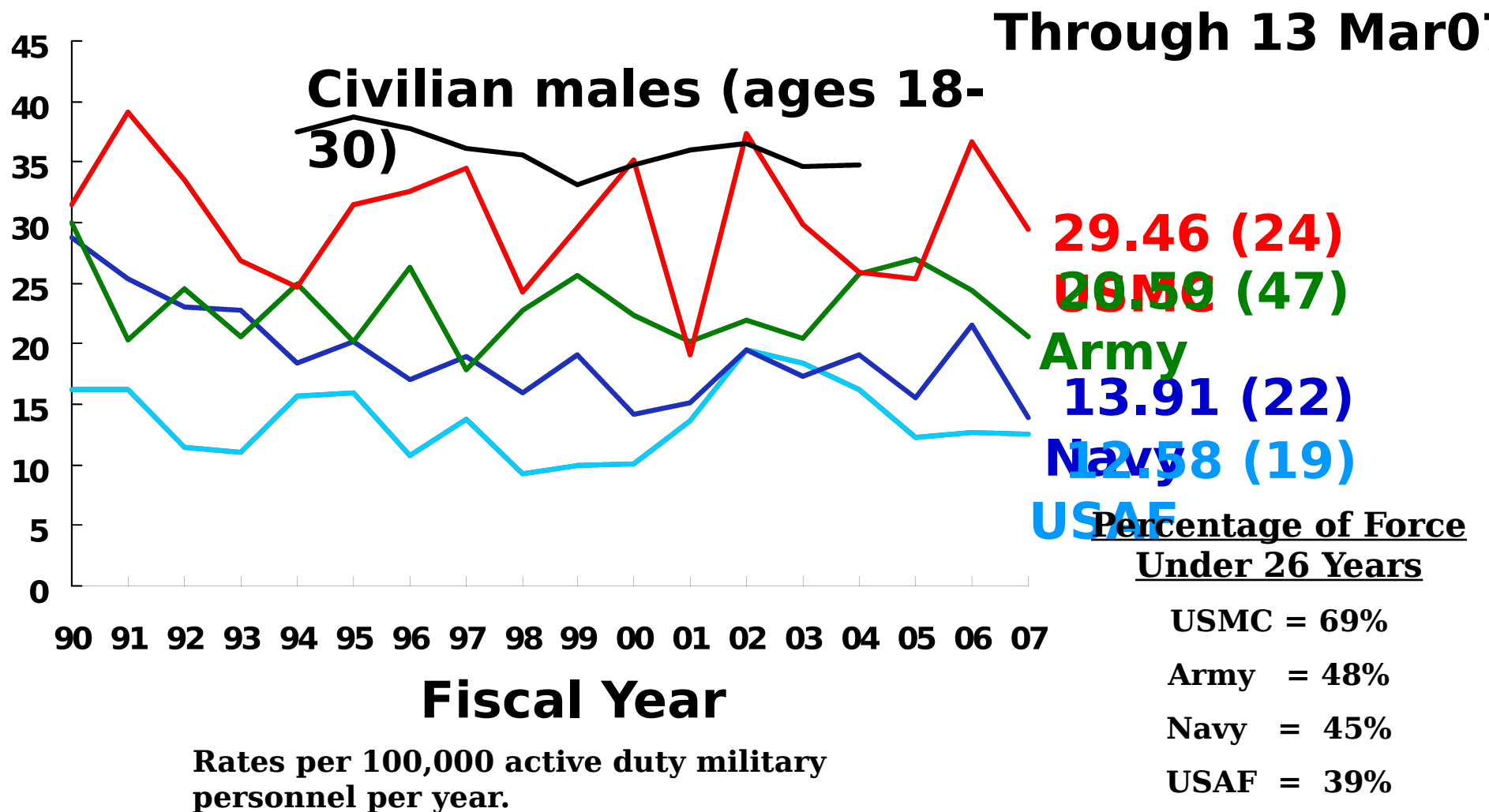
DECISION-BASED ERRORS



No One Should Die Because They Weren't Wearing A Seatbelt

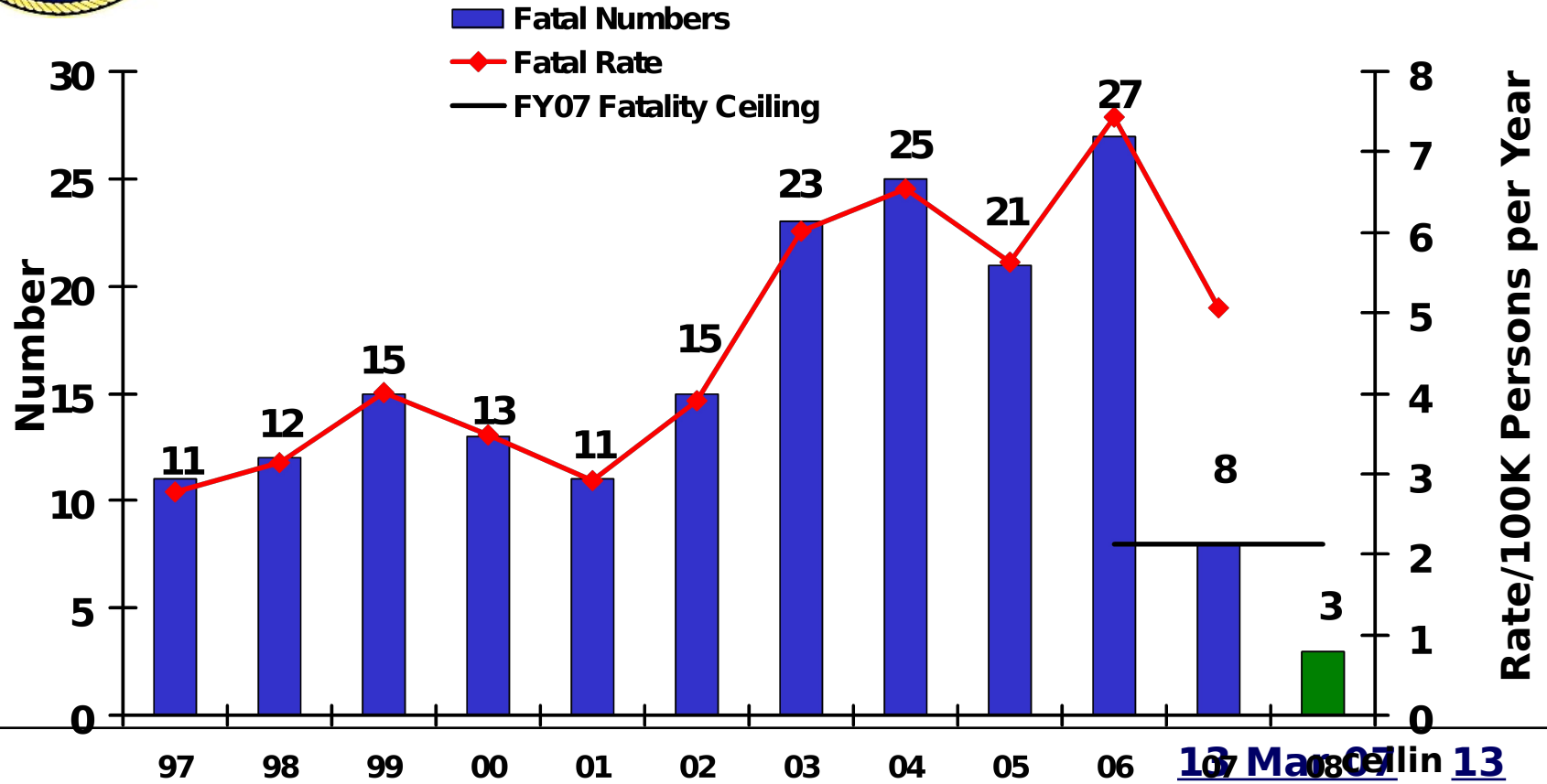


Armed Forces Traffic Death Rates (FY90-07)





OTORCYCLE PMV FATALITIES



Mar 06

CLASS A FATALITIES/FATALITY RATE FY COMPARISON: 8 / 5.06 12 / 7.32
FY06

FATALITIES/FATALITY RATE: 27 / 7.44

10-YEAR AVERAGE (FY97-06) FATALITIES/FATALITY RATE: 17.3 / 4.57

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Watch This !



FLEET BEST PRACTICES – PMV

1. Find out who is at risk – help them manage that risk; engaged mentorship
2. Understand that becoming a safe driver is part of young person's maturation process; recent studies indicate is not complete until age 25 or above
3. Traffic Safety Toolbox to provide the necessary tools to reduce mishaps
4. Engage in partnerships with local community. (Click It or Ticket, *You Drink, You Drive, You Lose*, MADD)
5. Letter home to solicit family's help to keep their loved one safe
6. Make traffic safety a paramount consideration of command; on par with other operational considerations

TRAVEL RISK PLANNING SYSTEM

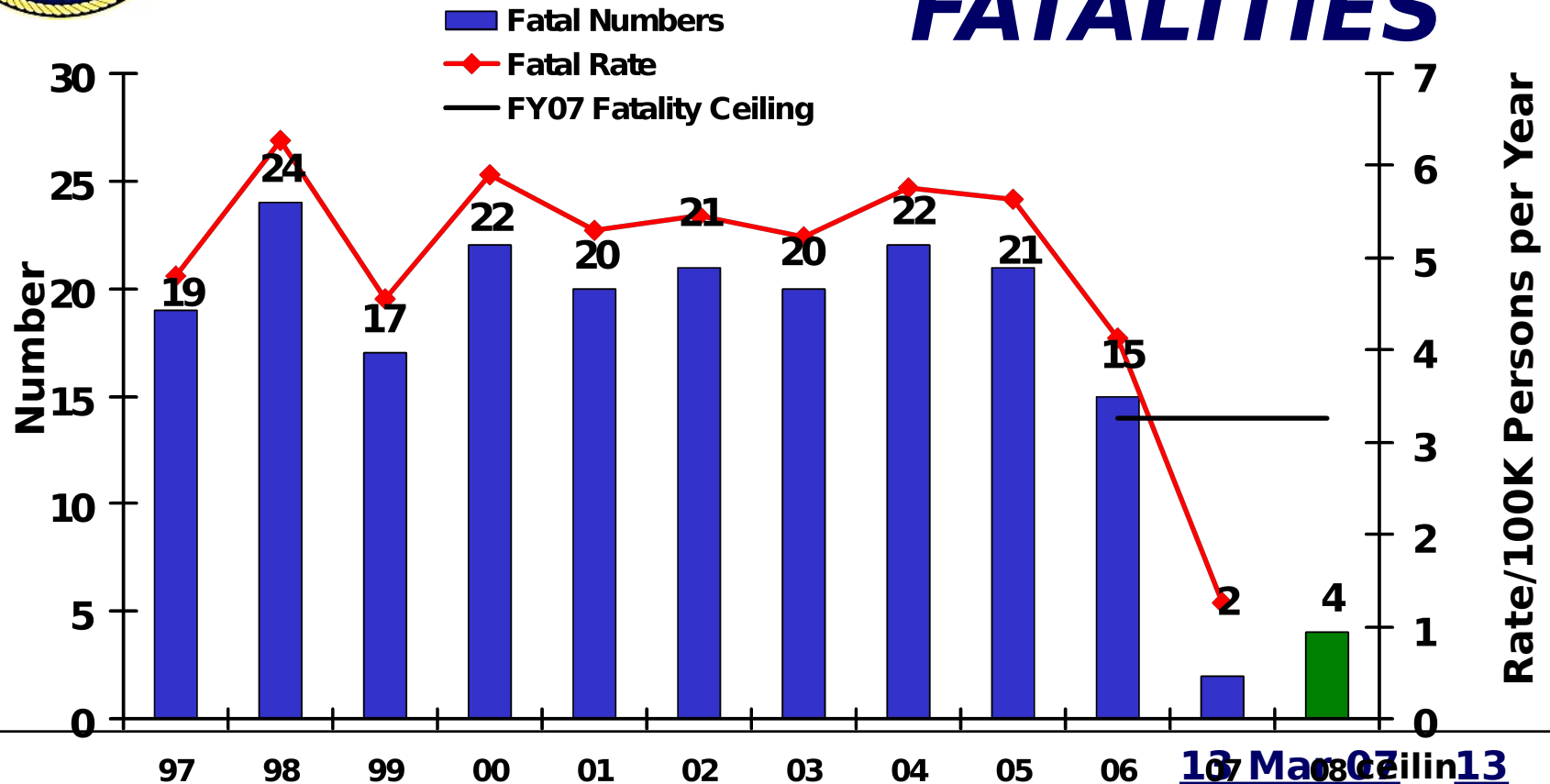
- TRiPS
 - Delivered to the Naval Safety Center for Fleet use in 2006; based on ASMIS-2 Army Safety Management Information System
 - A click away on <http://www.safetycenter.navy.mil>
 - Provides ORM trip assessment and actual mishap cases relevant to planned trip. Risk values/models based on NTSB data
 - Trip map, times, distances and other products improve ***supervisor interaction***; CBT course content designed to help change behavior

What Hazards Exist Here?





OFF-DUTY/REC FATALITIES



Mar 06

CLASS A FATALITIES/FATALITY RATE FY COMPARISON: 2 / 1.26 8 / 4.88
FY06 FATALITIES/FATALITY RATE: 15 / 4.13

10-YEAR AVERAGE (FY97-06) FATALITIES/FATALITY RATE: 20.1 / 5.31

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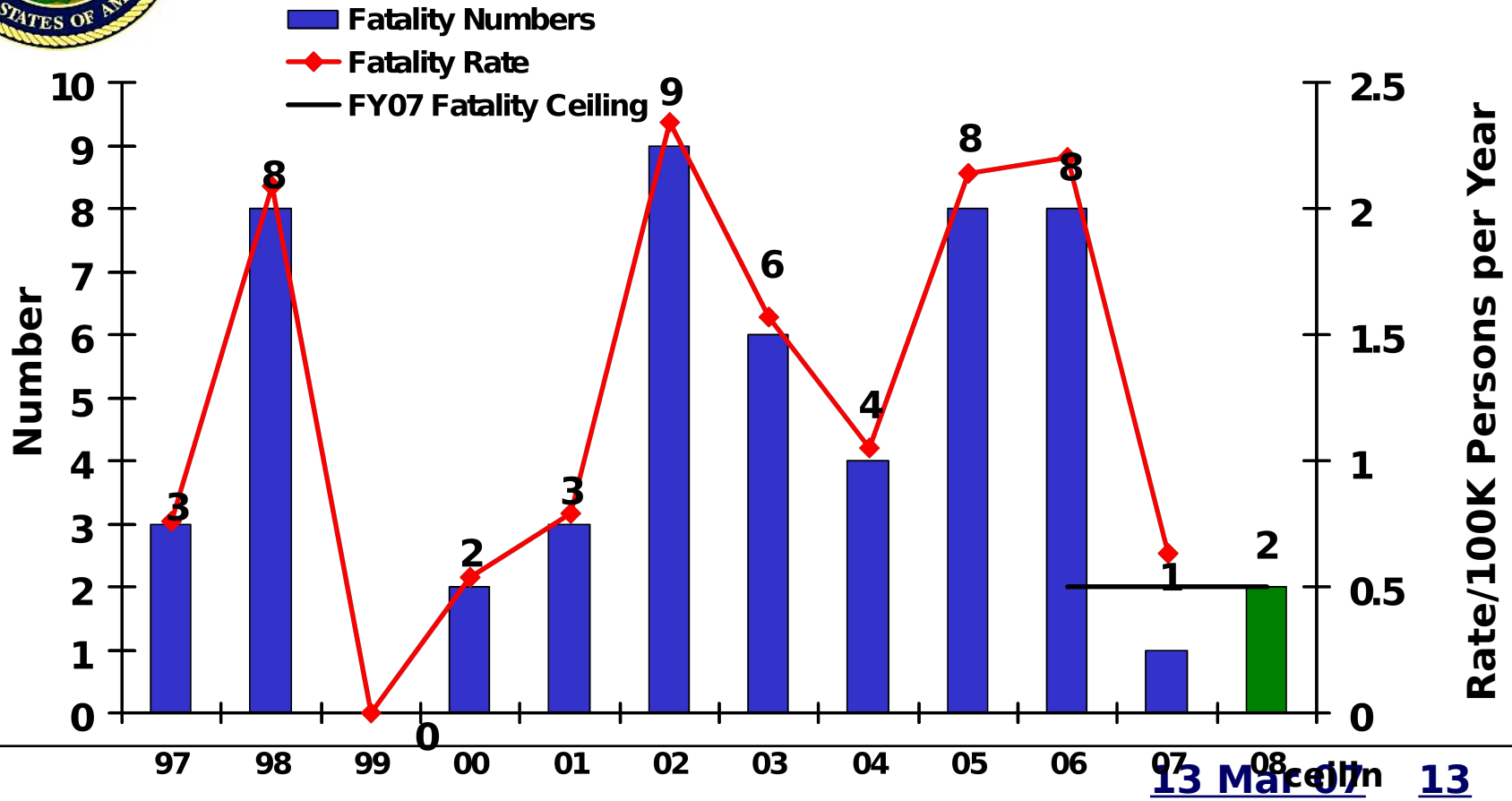
Best Fleet Practices – Off-Duty Rec

- 1. Commanders/Commands and supervisors engaged in Risk Management and RODS program.**
- 2. Individuals use risk management process before participating in their leisure-time activities.**
- 3. RODS Program Managers - Ensure command personnel have seasonal hazard awareness training.**
- 4. Individual Off-Duty Risk Assessment Form - Assess behavior factors and indicators related to off-duty recreation mishaps.**
- 5. MWR Automotive/Woodworking and Small Boat Rental - Provide qualification training and skills test prior to patrons using their facilities/equipment**





PHYSICAL TRAINING FATALITIES



Mar 06

1.83

FATALITIES/FATALITY RATE FY COMPARISON : **1 / 0.63** **3 /**

FY06 FATALITIES/FATALITY RATE : **8 / 2.20**

10-YEAR AVERAGE (FY97-06) FATALITIES/FATALITY RATE: **5.1 / 1.35**

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ORM: Risk Management Not Risk Avoidance

Five Steps

1. Identify Hazards

2. Assess Hazards

3. Make Risk Decisions

4. Implement Controls

5. Supervise

- Easy, common-sense process
- Mind-set
- Way of life – On and Off Duty
- Operating discipline
- Process must be taught
- Must institutionalize ORM – it's

not today

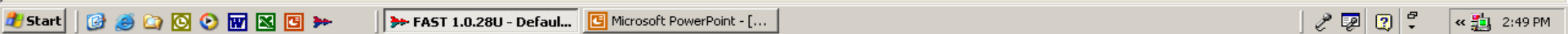
YOU CAN'T "ORM" SOMETHING THAT'S STUPID, TO SOMETHING THAT'S SMART!!!

Effective Use of Risk Management



FATIGUE STUDY

- AN E-5 WENT TO A BACHELOR PARTY UNTIL MIDNIGHT **THURSDAY**, SLEPT FIVE HOURS, THEN WENT TO WORK. TOILED ALL DAY, THEN WENT ON LEAVE.
- DROVE 120 MILES TO A PARTY AND BOOGALOOED UNTIL THREE O'CLOCK IN THE MORNING **FRIDAY**. SLEPT FOR AN HOUR ON THE WAY BACK, RAN ERRANDS ALL DAY, MET SOME FRIENDS FOR A MIDNIGHT GAME OF PAINTBALL THAT LASTED, ONCE AGAIN, UNTIL THAT MAGICAL HOUR OF 0300.
- HEADED HOME AT 0445 **SATURDAY**. PULLED OVER WITHIN 30 MINUTES TO STRETCH AND YAWN.
- HE THEN GOT BACK BEHIND THE WHEEL, FELL ASLEEP ON A CAUSEWAY, VEERED OFF THE ROAD AND RAN INTO TWO GUARD RAILS. HIS PICKUP TRUCK WENT AIRBORNE AND SPLASHED DOWN INTO THE BAY BELOW.
- THE SAILOR CAME TO, RELEASED HIS SEAT BELT, CRAWLED THROUGH A BROKEN WINDOW, AND SWAM TO A PYLON. FORTUNATELY, A PASSING MOTORIST HAD SEEN THIS DRAMA AND CALLED EMERGENCY SERVICES.



THE COMMANDING OFFICER



Recommendations to Improve Safety in Your Command

1. Naval Safety Center Website - The Tools Are There!

- Traffic Safety Toolbox
- Web-Enabled Safety System (WESS) – Online mishap reporting / database
- Leave and Liberty Risk Assessments

2. Ensure a **SOLID Welcome Aboard, Sponsorship/ Mentorship Program.**

- First impressions are lasting ones
- On and Off duty activities must be addressed

3. Identify “high-risk” personnel within command.

- Ensure leadership is engaged with subordinate personnel
- Establish awareness training of high-risk activities and mentoring for high-risk personnel
- Identify motorcycle operators and confirm required training is complete

Recommendations to Improve Safety in Your Command

4. Do the inexpensive things at a minimum.

- **Schedule a Culture Workshop / Safety Survey**
- **Distribute “Safe Ride” taxi cards**
- **Conduct pre-holiday safety standdowns**
- **Require leave chit risk assessments prior to authorizing leave**

5. Maintain high-visibility within command.

- **Establish and enforce standards- defined command safety policy**
- **Treat every mishap the same (PMV/Off-Duty Fatality hurts command as much as material mishap)**
- **Correct safety deficiencies immediately**
- **Hold personnel ACCOUNTABLE for failure to follow regulations**

6. INSPECT for compliance

- **Verify command policies are being followed**
- **Demonstrate daily commitment to safety**

Ensure experience level matches assigned duties

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NSC Website: Your Valuable Resource

***www.safetycenter.
navy.mil***

Naval Safety Center - Microsoft Internet Explorer provided by NMCI

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media View Print

Address <http://www.safetycenter.navy.mil/>

Google G Go Bookmarks 106 blocked Check Look for Map AutoFill

Work, Play, Live ... Safely!
Naval Safety Center

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Resources

- [TRIPS](#) (Travel Risk Planning System)
 - [Navy](#) • [Marines](#)
- [Executive Summary](#)
- [Safety Toolbox](#)
- [75% Mishap Reduction](#)
- [Presentations](#)
- [Traffic Safety Toolbox](#)
- [Success Stories](#)
- [Statistics](#)
- [Seasonal Resources](#)
- [POD Notes, Slogans](#)

Quick Links

- [Photo of the Week](#)
- [ASCAS](#)
- [Friday Funnies](#)
- [Safety School](#)
- [Acquisition Safety](#)
- [Safety Surveys](#)
- [Culture Workshops](#)
- [Navy / NSC FOIA Request](#)
- [Secure Site \(PKI\)](#)

Staff

- [Biographies / Mission](#)

Traffic Death Update

At 0130 on February 26, a Marine private died in a car wreck on an interstate highway in Michigan. He was driving a van when he lost control; the van flipped several times. He had graduated from basic training last Friday. Also, a QMC from Naval Base Kitsap was killed in a wreck near Discovery Bay, Wash. He crossed the centerline and collided head-on with another car.

[PMV Stats](#) | [PMV Narratives](#)

Navy and Marine Corps PMV Deaths FY07 to date : **47**

In the Spotlight

What's New	More Articles
<ul style="list-style-type: none"> • NEW! CNO FY06 Awards For Achievement In Safety Ashore • 15th Safety Professional Development Conference in Virginia Beach, March 12-16 	<ul style="list-style-type: none"> • New! Special issue magazine about ORM slated for April 2007 • Navy and Marine Corps Safety Planner 2007 & 2007 Safety Planner Survey

Initiatives and Tools

Start | SSSL Brief-COL Jamison | Naval Safety Center - ...

Our Magazines Reach Every Community

“Tell Your Story”

APPROACH (1955)

16,183 copies

SAFE-Approach@navy.mil

MECH (1961)

17,124 copies

SAFE-Mech@navy.mil

GROUND WARRIOR (1999)

27,550 copies

SAFE-GrndWarrior@navy.mil

SEA&SHORE (2004)

30,442 copies

SAFE-SeaShore@navy.mil

Ship's Safety Bulletin (SSB)

<http://safetycenter.navy.mil/media/ssb/default.htm>

SAFE-SSB@navy.mil

FATHOM (1969-2003)

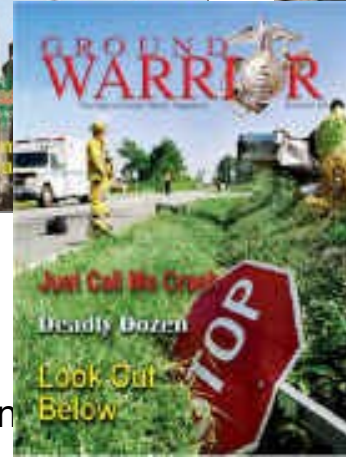
Out of circulation. For archives, visit:

<http://safetycenter.navy.mil/media/fathom/default.htm>

ASHORE (1985-2003)

Out of circulation. For archives, visit:

<http://safetycenter.navy.mil/media/ashore/default.htm>



**For distribution inquiries,
contact:**

**virginia.rives@navy.mil
757.444-3520 ext. 7256**

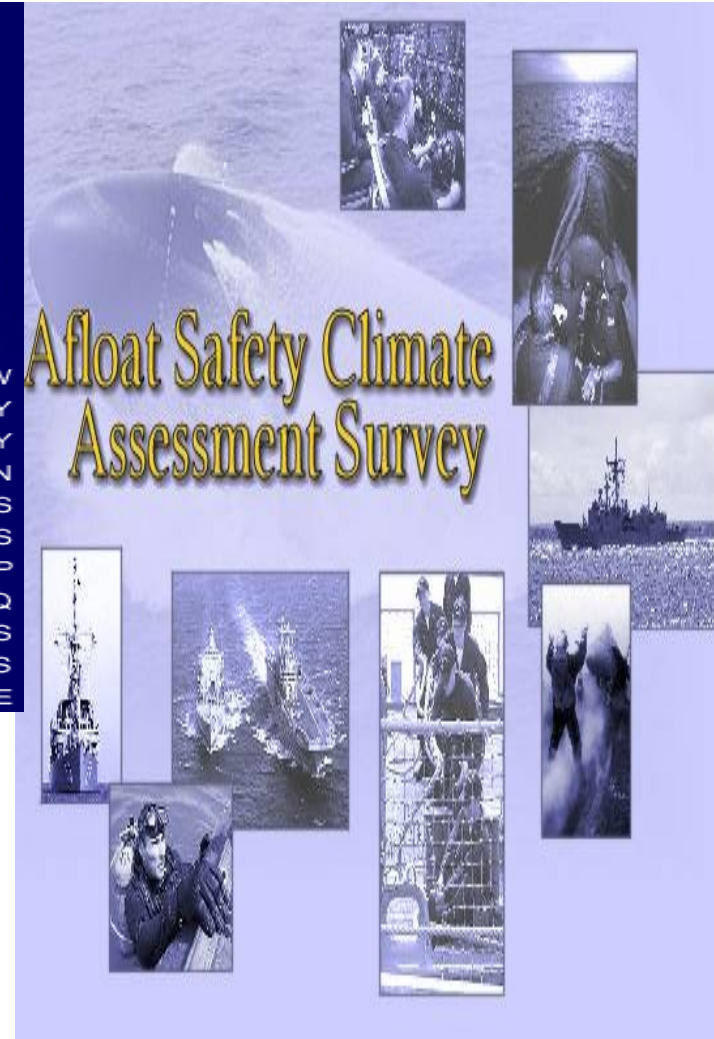
What's A Safety Survey?

- **Free, one-day assessment by Safety Center**
- **Survey teams improve your crews awareness in mishap prevention and recurring safety deficiencies**
- **No formal reports to higher authority -- not an inspection**
- **Static Appraisal**



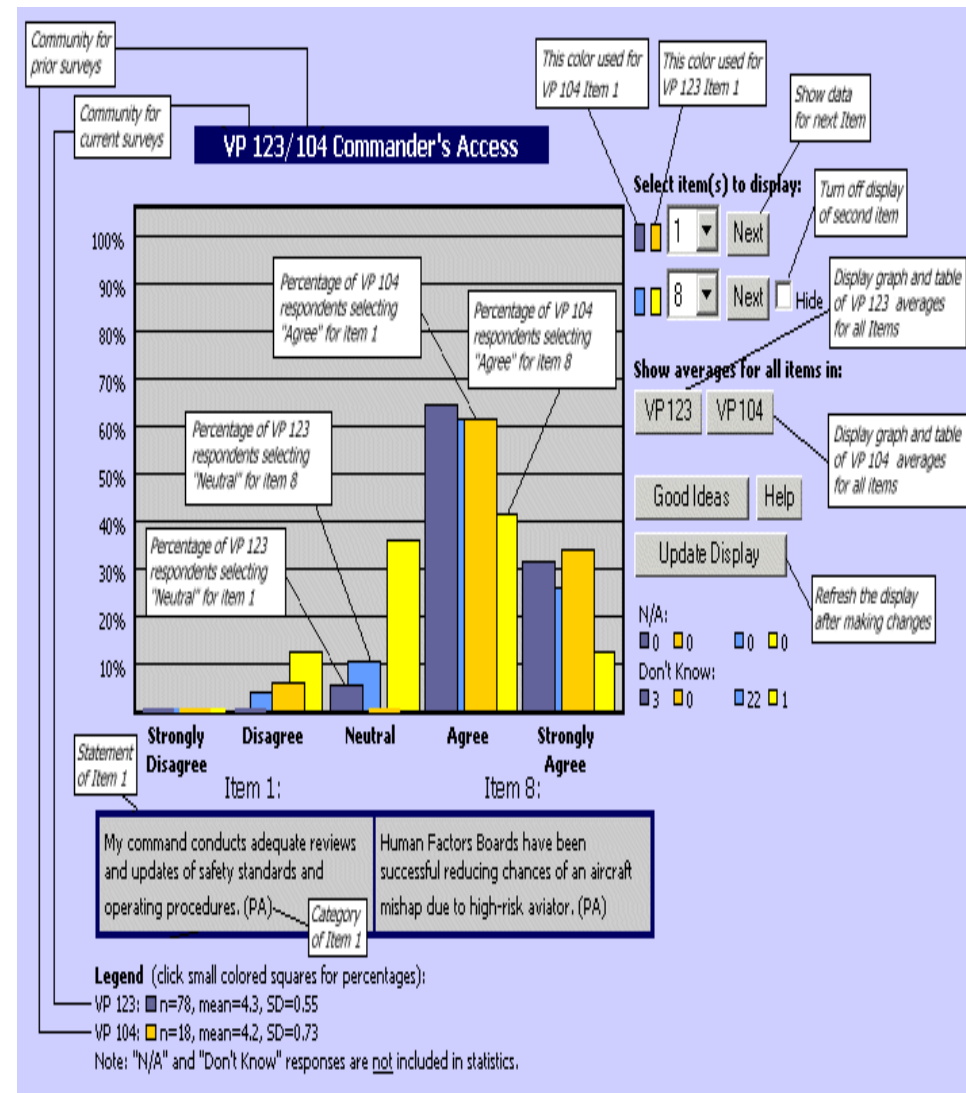
AFLOAT SAFETY CLIMATE ASSESSMENT SURVEY (ASCAS)

- What is ASCAS?
- Web based command climate survey on safety
- Designed for Dept Heads down to the most junior Sailor
- A secure way for the individual to provide an honest opinion on the ships safety program
- A private tool the CO can use to pulse the



What can ASCAS do for you?

- Examines how ship stacks up against the fleet.
- Lets the CO know exactly where the ship's safety program stands.
- Gives you a starting point to improve your safety program.
- Helps re-enforce ships safety program
- A tool to track your progress in improving your safety program



PMV SAFETY SUMMIT 2006

- **April-May 2006 PMV Online Survey Results:**
 - 1 out of 23 Sailors appears to have had a DUI
 - 97% of those recently returned from deployment said they had received PMV Training
 - 81% of Sailors that either had a DUI or wrecked while under the influence of alcohol had less than an Associates Degree
- **2006 PMV Focus Groups Major Findings:**
 - Personnel interviewed stated they SPEED because of adrenaline, running late for work, and testing vehicle's capability
 - Operational tempo and watch standing requirements were the casual factors mentioned for driving while FATIGUED
 - Personnel who are DRINKING out in town are reluctant to use the "Arrive Alive" or "Topsy Taxi" if available because individuals fear repercussion from the command

COLLECTING/DISSEMINATING THE DATA



- An integrated system to web enable the data collection and information dissemination safety business processes for Navy & Marine Corps.
- Allow data transfer with DOD, other Services & other systems with a stake in safety
- Allow safety customers direct access, on-line, to safety data to target mishap prevention.

What We Do for the Fleet

Naval Safety Center



Providing aviation, afloat, and shore support to Navy and Marine Corps commands



NSC at your service... for free!

Let our experience, expertise and unrivaled commitment to safety work for you.

Mishap Investigations

Surveys

Assist Visits

Data Analysis

Workshops

Publications

Website

Presentations

Exhibits

Call 757-444-3520 (DSN 564) or visit our website: www.safetycenter.navy.mil

ON THE ROAD

- Safety surveys
- Afloat Safety Climate Assessment Survey (ASCAS)
- ORM unit training
- Mishap investigations
- USMC MTT seminars
- PCO briefings
- NAVOSHENVTRACEN Safety & Occupational Health Training

AWARENESS

- Fleet Analysis
- Magazines printed/distributed (473,000 copies)
- Interactive CD's
- Acquisition process in-roads
- Safety advisories
- Customer information requests (3,600+ database queries per month)
- Safety Center web page

Where We're Going...



- **ORM - Safety Training Continuum**
 - “Cradle to grave” training for every Sailor
 - Partnership with NETC/HPDC in development of 5VM safety curriculum
 - Standardize training across USN
- **Driver Improvement Program**
 - ID high-risk drivers
 - Provide focused training
 - Develop driver-training continuum
- **Naval Safety Strategy (DASN(S))**
 - POA&M to get us to 75% mishap reduction

Our Goal...



**A MISHAP-FREE
NAVY+MARINE CORPS**

Team

www.safetycenter.navy.mil



Contacts and Resources

Naval Safety Center Website: www.safetycenter.navy.mil

PMV/Recreation Fatalities Statistics <http://www.safetycenter.navy.mil/execsummary/default.htm>

Culture Workshop/Best Fleet Practices/Lessons Learned
<http://www.safetycenter.navy.mil/culture/default.htm>

Traffic Safety Toolbox

<http://www.safetycenter.navy.mil/ashore/motorvehicle/toolbox/default.htm>

Focus Groups/Strategic Planning/Marketing

evelyn.odango@navy.mil or 757-444-3520 x 7312

Traffic Safety/Off-Duty Priority Initiatives

Traffic: mary.brigham@navy.mil or 757-444-3520 x 7134

Community Partnerships: bonnie.revell@navy.mil or 757-444-3520 x 7138

dan.steber@navy.mil or 757-444-3520





NAVAL SAFETY CENTER

Questions?

